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THIRTY-FIRST ANNUAL MEETING.

THE Kansas Academy of Science convened for the opening session of the thirty-first annual meeting in the rooms of the state railroad commission, in the state-house, 7:30 P. M., December 29, 1898, with President Lantz in the chair.

The following members were present: J. W. Beede, F. W. Bushong, G. P. Grimsley, H. J. Harnly, E. B. Knerr, D. E. Lantz, J. T. Lovewell, J. R. Mead, Alva J. Smith, B. B. Smyth, Geo. Wagner, J. T. Willard. A number of visitors were also present.

Secretary read the correspondence which had accumulated during the year.

Secretary read the minutes of the last session of a year ago. Approved.

The following committees were appointed:

Membership—A. S. Hitchcock, J. T. Lovewell, H. J. Harnly.

Program and press—J. W. Beede, Geo. Wagner, E. B. Kneer.

President Lantz reported, for the committee appointed a year ago on bulletin publication, that they were unable to secure the results desired.

The following were duly elected to membership: L. P. Brous, 800 Main street, Kansas City, Kan.; Ross Hopkins, Lawrence; W. H. Keller, Madison; J. A. Yates, Ottawa; J. D. Hooper, Manhattan.

President Lantz reported, on the matter of lectures in the state-house during the year, as recommended last year, that one such lecture was given in Representative hall by Prof. S. W. Williston. The lecture was illustrated by the lantern and was well appreciated. The subject was "Extinct Animals of Kansas."

The following papers were then read:

1. The deep well at Madison. F. W. Bushong.
2. Silico-barite nodules from near Salina. E. B. Knerr.
3. On the correlation of the Coal Measures of Kansas and Nebraska. J. W. Beede.
4. *Antrostomus carolinus*. R. Matthews. (In the absence of the author, this paper was read by the Secretary.)

B. B. Smyth gave notice that he would offer an amendment to section 3 of the constitution.

J. W. Beede offered a motion to the effect that the Academy sustain

the expense of illustration in the proceedings. Deferred to future action.

Adjourned to nine o'clock A. M. to-morrow.

DECEMBER 30, 1898.

Academy met at 9:30 o'clock A. M. in the rooms of the State Horticultural Society, with President Lantz in the chair.

Minutes of last meeting were read and approved.

The following committees were appointed:

Nominations: G. P. Grimsley, J. T. Willard, F. W. Bushong.

Resolutions: L. C. Wooster, L. L. Dyche, J. R. Mead.

Necrology: A. H. Thompson, B. B. Smyth, J. R. Mead.

Auditing: A. J. Smith, E. H. Heacock.

The following were duly elected to membership: R. Matthews, Wichita; Orr Adams, Topeka; F. E. Forbes, Topeka.

Treasurer J. W. Beede made his report, which was referred to the auditing committee.

Prof. H. J. Harnly, of McPherson, extended an invitation to the Academy to meet at McPherson next year, provided it is deemed advisable to meet so far west.

The following papers were then read:

5. *Felis concolor*. J. R. Mead.

6. Some Kansas mineral waters. E. H. S. Bailey. (Read by Geo. Wagner, in the absence of the author.)

7. Technology of gypsum. G. P. Grimsley.

8. Concretions. E. B. Knerr.

Col. Wm. Tweeddale was duly elected to membership.

Adjourned to meet at two o'clock p. m.

TWO O'CLOCK P. M.

Academy met in Horticultural hall; President Lantz in the chair.

Minutes of morning session were approved.

The following papers were read:

9. The occurrence of nitrates in well waters. E. H. S. Bailey. (Read by Geo. Wagner, in the absence of the author.)

10. Is Bob White a native of Kansas? J. R. Mead.

11. Some properties of liquid ammonia. E. C. Franklin. (Read by C. A. Kraus, in the absence of the author.)

12. Occurrence of *Arenaria interpres* (the turnstone) in Kansas. D. E. Lantz.

13. The purification of water. Wm. Tweeddale.

14. A condensed weather bureau office. T. B. Jennings.

15. Some natural history notes. J. R. Mead.

16. Harmonic forms—the cube, parallelopipedon, and cylinder. B. B. Smyth.

17. The prairie-dog on Nantucket island. F. H. Snow.

The proposed amendment of section 3 of the constitution was discussed, with the result that the section was amended to read as follows:

SEC. 3. Members of the Academy shall consist of two classes, active and honorary (including associate). *Active members* may be annual or life members. *Annual members* may be elected at any meeting of the Academy, and shall sign the constitution and pay a fee of one dollar and annual dues of one dollar; but the secretary, treasurer and librarian shall be exempt from the payment of dues during the years of their service. Any person who shall at one time contribute twenty dollars to the funds of this Academy may be elected a *life member* of the Academy, free of assessment. Any member who has paid dues to the Academy for ten consecutive years, or who has been legally exempt during any portion of that time, may be elected a *life member* on the payment of ten dollars. Any person who has been a member of this Academy in good standing for twenty years may be elected a *life member* without the payment of further fees or dues.

The remainder of the section remains in force.

It was voted that the Academy adjourn *sine die* at the close of this evening's session.

Adjourned to meet in the rooms of the Y. M. C. A. at Washburn College at eight o'clock P. M.

EIGHT O'CLOCK P. M.

Academy convened, with President Lantz in the chair.

The following new members were elected: Mrs. A. H. Merrell, Topeka; C. A. Kraus, Lawrence; F. J. Titt, Topeka.

The following were elected to life membership under the amendment to section 3 of the constitution, each having been a member of the Academy for twenty or more years continuously: F. H. Snow, Lawrence; A. H. Thompson, Topeka; J. T. Lovewell, Topeka; J. R. Mead, Wichita; E. A. Popenoe, Berryton.

It was voted, in the cases of Peter McVicar and S. W. Williston, who were early members of long standing but who allowed several years to lapse before they again became active members, that they be elected life members, all fees being remitted.

Dr. A. H. Thompson and Professor Lovewell favored the Academy with reminiscences of early days.

The committee on resolutions reported as follows:

Resolved, That the thanks of the Kansas Academy of Science be tendered to President Fred. Wellhouse and Secretary W. H. Barnes, of the Kansas Horticultural Society, for the use of their rooms in the state-house for the meeting of the Academy, and to the authorities of Washburn College, for the use of a room in which the closing session was held.

L. C. WOOSTER,
L. L. DYCHE,
J. R. MEAD,
Committee.

It was voted that the Academy appropriate funds, not to exceed

one-third the income of the Academy, to be expended on illustrations for the Transactions.

The auditing committee reported the Treasurer's accounts correct, and the report was adopted.

The nominating committee reported as follows: For President, E. B. Knerr; First Vice-President, A. S. Hitchcock; Second Vice-President, J. R. Mead; Secretary, D. E. Lantz; Treasurer, J. W. Beede; Librarian, B. B. Smyth. For Curators: A. H. Thompson, B. B. Smyth, W. A. Harshbarger, Geo. Wagner.

The report was adopted and the officers elected as above.

B. B. Smyth made a report for the Board of Curators. The Board held seven sessions during the year, with all present every session. The report was approved.

The committee on legislation, appointed at the last meeting, and consisting of D. E. Lantz, L. E. Sayre, and S. W. Williston, was unable to report, and the committee was continued. On motion, the names of G. P. Grimsley and Geo. Wagner were added to the above committee.

President Lantz's address on "The Kansas Academy of Science, retrospective and prospective," was then heard with great interest.

On motion, a vote of thanks was tendered the speaker for his able, timely and interesting address.

The Curators, on motion, were instructed to put temporary shelving in the Academy office for the accommodation of the books belonging to the Academy.

The reading of papers was then considered:

18. On variation of the nitrogen-content of maize, and the possibilities for its improvement. J. T. Willard.

The remaining papers on the program were read by title, as follows:

19. A review of the mineral resources of Kansas. G. P. Grimsley.

20. Some localities in Kansas which yield Dakota leaves. C. N. Gould.

21. On injurious tenebrionid larvæ. Warren Knaus.

22. Collecting notes on Kansas Coleoptera. Warren Knaus.

23. A list of Kansas Hymenoptera. J. C. Bridwell.

24. A preliminary list of the Hymenoptera of New Mexico, exclusive of bees and fossorial. T. D. A. Cockerell.

25. Kansas Uredineæ. E. Bartholomew.

26. A list of plants in my Florida herbarium. A. S. Hitchcock.

27. Flora of Kansas. B. B. Smyth.

28. Medicinal plants of Kansas, preliminary. B. B. Smyth.

29. Some recent applications of the theory of solutions. E. H. S. Bailey.

30. Indian sculpture in the upper Medicine valley. C. N. Gould.

31. Evolution before Darwin. A. H. Thompson.

32. Some further pendulum experiments. J. T. Lovewell.

The matter of place and time of next annual meeting was left to the executive committee.

Adjourned to meet at call of executive committee.

E. B. KNERR, *Secretary*.